

### **AMENDMENTS TO THE CLAIMS**

Claims 1-11 (Canceled)

12. (New) A high combustion efficiency device for liquid fuel, comprising:  
a hollow member made of electrically conductive material;  
liquid filling the hollow member; and  
tourmaline particles dispersed in the liquid.

13. (New) The high combustion efficiency device for liquid fuel according to Claim 12, wherein the liquid contains electrically conductive particles.

14. (New) The high efficiency combustion device for liquid fuel according to Claim 12, wherein the liquid comprising:  
an electrically conductive solution or electrically conductive gel containing carbon graphite particles.

15. (New) The high combustion efficiency device for liquid fuel according to Claim 12, wherein the high combustion efficiency device is formed to be attachable to at least part of a fuel tank of liquid fuel and a fuel passage extending from the fuel tank to a combustion device of the liquid fuel.

16. (New) The high combustion efficiency device for liquid fuel according to Claim 12, wherein the high combustion efficiency device can surround a fuel pipe extending from the fuel tank to a combustion device of the liquid fuel.

17. (New) The high combustion efficiency device for liquid fuel according to Claim 14, wherein the high combustion efficiency device can surround a fuel pipe extending from the fuel tank to a combustion device of the liquid fuel.

18. (New) The high combustion efficiency device for liquid fuel according to Claim 12, wherein a surface of the hollow member is covered by a far-infrared ray generating substance.

19. (New) The high combustion efficiency device for liquid fuel according to Claim 18, wherein the far-infrared ray generating substance is hard alumite.

20. (New) The high combustion efficiency device for liquid fuel according to Claim 18, wherein the far-infrared ray generating substance is provided as an outermost layer.

21. (New) The high combustion efficiency device for liquid fuel according to Claim 14, wherein a surface of the hollow member is covered by a far-infrared ray generating substance.

22. (New) The high combustion efficiency device for liquid fuel according to Claim 21, wherein the far-infrared ray generating substance is hard alumite.

23. (New) The high combustion efficiency device for liquid fuel according to Claim 21, wherein the far-infrared ray generating substance is provided as an outermost layer.

24. (New) The high combustion efficiency device for liquid fuel according to Claim 17, wherein a surface of the hollow member is covered by a far-infrared ray generating substance.

25. (New) The high combustion efficiency device for liquid fuel according to Claim 24, wherein the far-infrared ray generating substance is hard alumite.

26. (New) The high combustion efficiency device for liquid fuel according to Claim 24, wherein the far-infrared ray generating substance is provided as an outermost layer.

27. (New) The high combustion efficiency device for liquid fuel according to Claim 12, comprising adsorption means attached to an inner wall surface of the fuel tank.

28. (New) The high combustion efficiency device for liquid fuel according to Claim 14, comprising adsorption means attached to an inner wall surface of the fuel tank.

29. (New) The high combustion efficiency device for liquid fuel according to Claim 12, comprising a device body and a float which allows the device body to float in the fuel in the fuel tank.

30. (New) The high combustion efficiency device for liquid fuel according to Claim 14, comprising a device body and a float which allows the device body to float in the fuel in the fuel tank.

31. (New) The high combustion efficiency device for liquid fuel according to Claim 12, wherein the high efficiency combustion device is mounted while the hollow member is grounded.

32. (New) The high combustion efficiency device for liquid fuel according to Claim 13, wherein the high efficiency combustion device is mounted while the hollow member is grounded.

33. (New) The high combustion efficiency device for liquid fuel according to Claim 14, wherein the high efficiency combustion device is mounted while the hollow member is grounded.

34. (New) The high combustion efficiency device for liquid fuel according to Claim 17, wherein the high efficiency combustion device is mounted while the hollow member is grounded.

35. (New) The high combustion efficiency device for liquid fuel according to Claim 24, wherein the high efficiency combustion device is mounted while the hollow member is grounded.